| POSITION                  | INITIALS | ID NO. | DATE      |  |  |
|---------------------------|----------|--------|-----------|--|--|
| FEE DETERMINATION         | 110 300  |        | 11-28-    |  |  |
| O.I.P.E. CLASSIFIER       |          | 4:83   | 12:151:00 |  |  |
| FORMALITY REVIEW          | A.G      | 640    | 12-07-01  |  |  |
| RESPONSE FORMALITY REVIEW |          |        |           |  |  |

## INDEX OF CLAIMS

| J | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
|   | (Through numeral) Canceled | Α | Appeal       |
|   | Restricted                 | 0 | Objected     |

|          |          |          |          |              |          | ÷            | ••         |          |          | ••••         |                    |   | 1        | Rest     | HCU          | eu       |              |              |          | 0        |          | ••••     |          | ••••      |     | ••••     | . UD       | joo        | icu      |              |
|----------|----------|----------|----------|--------------|----------|--------------|------------|----------|----------|--------------|--------------------|---|----------|----------|--------------|----------|--------------|--------------|----------|----------|----------|----------|----------|-----------|-----|----------|------------|------------|----------|--------------|
| Cla      | im       | 7        | _        |              |          | Da           | te         |          |          |              |                    |   | Cla      | im       |              | _        |              |              | Dat      | e        |          |          |          |           |     | Cla      | im         | _          | _        |              |
| Final    | la l     | 3.23/    |          |              |          |              |            |          |          |              |                    |   | Final    | Original |              |          |              |              |          |          |          |          |          |           |     | Final    | Original   |            |          |              |
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| L        | 2        | L        | _        |              |          | _            | L          | L        | _        |              | _                  | ĺ | <u> </u> | 52       |              | _        | -            | _            | _        |          |          | $\dashv$ | -        |           |     |          | 102<br>103 | $\dashv$   | -        | $\dashv$     |
| <u> </u> | 3        | V        | L.       | _            |          | _            | <u> </u>   | L        | _        | Щ            |                    |   | _        | 53<br>54 |              | _        | -            | _            | $\dashv$ |          |          | $\dashv$ | $\dashv$ | $\dashv$  |     |          | 104        | $\dashv$   | $\dashv$ | $\dashv$     |
| <u> </u> | 5        | 7        | -        |              | $\vdash$ | -            | ┝          | $\vdash$ |          | $\vdash$     | _                  |   |          | 55       | -            | $\dashv$ | $\dashv$     | _            |          | -        |          | $\vdash$ | -        | -         |     |          | 105        | $\dashv$   | $\dashv$ |              |
|          | 6        | V        |          |              | ┝        | -            | $\vdash$   | $\vdash$ | -        |              |                    |   | $\vdash$ | 56       |              |          | $\dashv$     |              | _        |          |          |          |          | $\exists$ |     |          | 106        | ヿ          |          | $\neg$       |
| $\vdash$ | 7        | v        |          | _            | ┢        | -            |            | -        |          | Н            |                    |   |          | 57       |              |          |              |              | П        |          |          |          |          |           |     |          | 107        |            |          |              |
| 一        | 8        | v        |          |              |          |              |            |          |          |              |                    |   |          | 58       |              |          |              |              |          |          |          |          |          |           |     | _        | 108        |            |          |              |
|          | 9        | V        |          |              |          |              |            |          |          |              |                    |   |          | 59       |              | _        |              |              | _        |          |          |          | _        |           |     | -        | 109        | _          |          |              |
| L        | 10       | L        |          |              | _        |              |            | _        |          |              |                    |   | <u> </u> | 60       |              | _        | _            |              | _        |          | _        |          |          |           |     |          | 110<br>111 | $\dashv$   | $\dashv$ | $\dashv$     |
| L        | 11       |          |          | _            | <u> </u> | <u> </u>     | <u> </u>   |          | _        |              |                    |   | ⊢        | 61       | -            | $\dashv$ | -            | _            | -        | _        | Н        |          |          | $\dashv$  |     |          | 112        |            |          |              |
| $\vdash$ | 12<br>13 | Н        |          | H            | L        | -            | -          | $\vdash$ | $\vdash$ | L            |                    |   | _        | 62<br>63 |              | $\dashv$ | $\dashv$     | $\dashv$     |          | _        | Н        | Н        |          | $\dashv$  |     |          | 113        | $\dashv$   | -        | -            |
| -        | 14       |          | _        | -            | -        |              | _          | H        | -        | $\vdash$     |                    |   | $\vdash$ | 64       | -+           | $\dashv$ | $\dashv$     | $\dashv$     | $\dashv$ |          | Н        | $\dashv$ | -        | $\dashv$  |     |          | 114        | $\dashv$   | -        | $\Box$       |
| $\vdash$ | 15       | _        |          |              |          | -            |            | H        | _        | _            |                    |   | $\vdash$ | 65       |              |          |              | $\dashv$     |          |          |          |          | _        | $\dashv$  |     |          | 115        | 寸          | _        |              |
| <b> </b> | 16       | Н        |          |              | Т        |              |            | П        | _        |              |                    | ĺ |          | 66       |              |          |              |              |          |          |          |          |          |           |     |          | 116        |            |          |              |
|          | 17       |          |          |              |          |              |            |          |          |              |                    |   |          | 67       |              |          |              |              |          |          |          |          |          |           |     |          | 117        |            |          |              |
|          | 18       |          |          |              |          |              |            |          |          | П            |                    |   |          | 68       |              |          |              |              |          |          | L_       |          |          |           |     |          | 118        |            |          | $\square$    |
| L        | 19       |          |          |              | <u>_</u> |              |            |          |          | _            |                    |   |          | 69       | _            | _        |              | _            |          |          |          |          |          |           |     | _        | 119        | 4          | _        | ┝╌┧          |
| L        | 20       |          |          |              |          |              |            |          |          |              |                    |   |          | 70       |              |          |              |              |          |          |          |          | _        |           |     |          | 120        |            |          | $\vdash$     |
| <u> </u> | 21       |          |          |              | L        |              |            |          | _        | _            | Ц                  |   |          | 71       | $\sqcup$     |          |              |              |          |          | _        |          | _        |           |     | <u> </u> | 121<br>122 |            |          | $\vdash$     |
| <u>*</u> | 22<br>23 | ķ ļi,    | 1        | _            |          | - 1          | L          |          | -        | Н            | H                  |   | $\vdash$ | 72<br>73 |              | •        | _            |              |          |          |          |          | -        | _         |     |          | 123        | -          |          | -            |
| F        | 24       | -        | -        | * .<br>* .   | -        | Ë            | -          | ÷        | _        | H            |                    |   | $\vdash$ | 74       |              | _        |              |              |          | _        | H        | -        |          |           | i   | ┝        | 124        | Н          |          | $\vdash$     |
| ┝        | 25       |          |          |              |          | -            | -          | H        | $\vdash$ |              |                    |   | $\vdash$ | 75       |              |          | -            |              |          |          |          |          | _        |           |     | <u> </u> | 125        | П          |          | П            |
| H        | 26       | Н        |          |              | _        | -            |            | -        |          |              | Г                  | ĺ | $\vdash$ | 76       | H            |          |              | _            |          |          |          |          |          | Г         | ĺ   |          | 126        | П          |          |              |
|          | 27       |          |          |              |          | _            | ŀ          | Г        |          |              |                    |   |          | 77       |              |          |              |              |          |          |          |          |          |           |     |          | 127        |            |          |              |
| -        | 28       |          |          |              |          |              |            |          |          |              |                    |   |          | 78       |              |          |              |              | L        |          |          |          |          |           |     | L        | 128        | <u>.</u>   | _        |              |
|          | 29       |          |          |              |          |              |            |          |          |              |                    |   |          | 79       |              |          |              |              | _        | _        | <u> </u> | _        | L        | _         |     | Ļ        | 129        | <u> </u> _ | $\vdash$ |              |
| <u> </u> | 30       | _        |          | _            |          |              | <u> </u> _ | ļ.,      | _        | L            | <u> </u>           |   | <u> </u> | 80       | _            | _        |              | <u> </u>     | ┡        | _        |          | <u> </u> | <u> </u> | _         | , ' | Ŀ        | 130        | <u> </u>   | -        | <del> </del> |
| <u> </u> | 31       | _        |          | _            | _        | <u> </u>     | Ŀ          |          |          | _            | _                  |   | $\vdash$ | 81<br>82 | -            | _        | ⊢            | ļ            |          | <u> </u> | ⊢        | <u> </u> | _        | -         | 1   | ⊢        | 131        | —          | ├        | $\vdash$     |
| $\vdash$ | 32<br>33 | L        |          | _            | -        | -            | ┝          | $\vdash$ | $\vdash$ | ⊢            | -                  | ┨ | -        | 83       | -            | _        | $\vdash$     | <del> </del> | ⊢        | $\vdash$ | 1        | ┝        | -        | -         | 1   | H        | 133        | -          |          | ╁            |
| -        | 34       | -        |          | _            | -        | ┢            | $\vdash$   | ┢        |          | $\vdash$     | -                  | 1 | $\vdash$ | 84       | -            |          |              | -            | ├        | $\vdash$ |          | H        | -        | ╁╴        | 1   | $\vdash$ | 134        |            | ┢        | $\vdash$     |
| <b> </b> | 35       | $\vdash$ | $\vdash$ | <del> </del> | -        | ┢            | $\vdash$   | $\vdash$ | $\vdash$ | -            | -                  | 1 | $\vdash$ | 85       | 1            | Н        | $\vdash$     | $\vdash$     | T        |          | T        | -        |          | 1         | 1   | $\vdash$ | 135        | -          | Γ        | $\top$       |
|          | 36       |          |          | Г            |          | $\vdash$     | Τ          | $\vdash$ | Т        | $\vdash$     | <u> </u>           | 1 |          | 86       |              |          |              |              |          |          | Γ        |          |          | L         | ]   |          | 136        |            |          |              |
|          | 37       |          |          |              |          |              |            | Γ        |          |              |                    | ] |          | 87       |              |          |              |              |          |          |          |          |          |           |     |          | 137        | _          | Ĺ        |              |
|          | 38       |          |          |              |          |              |            |          |          |              |                    | 1 |          | 88       | L            | ļ_       | L            | <u> </u>     | <u> </u> | L        |          |          | L        | _         | 1   | L        | 138        |            | $\perp$  | $\vdash$     |
| L        | 39       | _        | _        | _            | _        | L            | _          |          | L        | <u> </u>     | _                  | 1 | L        | 89       | _            | _        | $\vdash$     | _            | ╀        | $\vdash$ | $\vdash$ | <u> </u> | -        | $\vdash$  | -   | <u> </u> | 139        | +-         | $\vdash$ | +-           |
| L        | 40       | ļ.       | L        | L            | L        | _            |            | L        | 1        | L            | _                  | 1 | _        | 90       | _            | <u> </u> | <del> </del> | <u> </u>     | 1        | ┞        | $\vdash$ | -        | -        | <u> </u>  | -   | L        | 140        |            | 1        | +            |
| <u>_</u> | 41       | _        | <u> </u> | <u> </u>     | <u> </u> | <del> </del> | ↓          | <u> </u> | _        | $\perp$      | $oldsymbol{\perp}$ | 4 | L        | 91       | <del> </del> |          | ╄            | $\vdash$     | ┼-       | 1        | $\vdash$ | +        | -        | -         | {   | $\vdash$ | 142        |            | ╁        | +            |
| $\vdash$ | 42       | L        | <u> </u> | <u> </u>     | -        | ├-           | -          | $\vdash$ | $\vdash$ | +            |                    | 1 | $\vdash$ | 92       | -            | H        | $\vdash$     | $\vdash$     | $\vdash$ | ┼        | +        | +        | Ͱ        | +         | -   | $\vdash$ | 143        | _          | $\vdash$ | +            |
| -        | 43<br>44 | -        | ├-       | -            | ┼-       | ╀            | -          | $\vdash$ | ╀        | ╁            | $\vdash$           | + | $\vdash$ | 93       | +-           | $\vdash$ | +            | +            | ┼        | $\vdash$ | $\vdash$ | H        | $\vdash$ | ╁╌        | 1   | $\vdash$ | 144        | +          | +        | +            |
| ٦        | 45       |          | -        | $\vdash$     | $\vdash$ | -            | ╁╌         | ╁        | ╁        | +            | +                  | 1 | -        | 95       |              |          | ╁╴           | +            | +        | +        | +        | +        | +        | $\dagger$ | 1   | $\vdash$ | 145        |            | +        | +            |
| $\vdash$ | 46       | -        | H        | ╁            | $\vdash$ | $\vdash$     | +          | $\vdash$ | +        | $^{\dagger}$ | $\vdash$           | 1 |          | 96       | +-           | T        | t            | $\dagger$    | T        | 1        | $\top$   | T        | 1        | 1         | 1   | $\vdash$ | 146        | _          | T        | $\top$       |
| 1        | 47       | $\vdash$ | $\vdash$ | T            | ✝        | T            | Τ          | 1        | 1        | T            | T                  | 1 |          | 97       | -            | T        | Τ            | T            | T        | Τ        | T        | T        | Γ        | 1         | 1   |          | 147        | 1          | Γ        | T            |
|          | 48       | Τ        | <u> </u> | T            |          | T            |            |          | T        | T            | T                  | 1 |          | 98       |              |          | I            |              |          |          | I        |          |          |           | ]   |          | 148        | -          |          | I            |
|          | 49       |          |          |              |          |              | I          | Γ        | I        |              |                    | ] |          | 99       |              |          |              |              | L        | L        | $\perp$  | L        |          |           | _   | L        | 149        |            | Ĺ        | 丰            |
|          | 50       |          | 匚        |              | Γ        |              |            |          |          | 厂            | 1                  | _ | L        | 10       | <b>2</b>     | L        | 1_           | <u></u>      | 1        |          |          |          |          | l         | _   | L        | 150        | <u> </u>   | 1_       | ⊥_           |

| Cla      | im       |              |          |              |                  | Dat      | е           |                  |            |  |           |
|----------|----------|--------------|----------|--------------|------------------|----------|-------------|------------------|------------|--|-----------|
|          | - E      | ]            |          |              |                  |          |             |                  |            |  |           |
| ğ        | Original |              |          |              |                  |          |             |                  |            |  |           |
| Final    | 5        |              |          |              |                  |          |             |                  |            | ł  |           |
|          | 101      |              |          |              |                  |          |             |                  |            |  |           |
|          | 102      |              |          |              |                  |          |             |                  |            |  |           |
|          | 103      |              |          |              |                  |          |             |                  |            |  |           |
|          | 104      | -            | -        | _            |                  |          | -           | $\vdash$         | -          | $\dashv$   |           |
|          | 105      |              | $\dashv$ |              |                  |          | $\vdash$    |                  | -          | $\neg$   |           |
|          | 106      | -            | -        |              |                  |          | _           | $\vdash$         |            | $\dashv$   |           |
|          | 107      | _            |          | _            |                  |          |             | $\dashv$         |            | $\dashv$   |           |
|          | -        |              |          |              |                  | _        |             | -                |            |  |           |
|          | 108      |              |          |              |                  | -        | Н           | $\dashv$         | -          | -  |           |
|          | 109      | _            |          |              |                  |          |             | _                |            | _  |           |
|          | 110      |              |          |              | -                | _        |             | Н                |            |  |           |
|          | 111      |              |          |              |                  | _        |             | Щ                |            | Ш  |           |
|          | 112      |              |          |              |                  | _        | _           |                  |            |  |           |
|          | 113      |              |          |              | _                |          |             |                  |            |  |           |
|          | 114      |              |          |              |                  |          | L           |                  |            |  |           |
|          | 115      |              |          |              |                  |          |             |                  |            |  |           |
| -        | 116      |              |          |              |                  |          |             |                  |            |  |           |
|          | 117      |              | _        |              |                  | _        |             |                  | Г          |  |           |
|          | 118      |              | $\vdash$ |              |                  | $\vdash$ |             | Г                |            |  |           |
|          | 119      |              | $\vdash$ |              |                  | Г        |             |                  |            | Г  |           |
|          | 120      | -            |          | -            |                  |          | $\vdash$    | _                |            | $\vdash$   | ┪         |
|          | 121      |              |          | -            |                  |          | ⊢           | _                |            | -  | -         |
| _        | -        | -            |          | H            | -                | $\vdash$ | $\vdash$    | <u> </u>         | <u> </u>   | <del>  -</del>                                   | ┝╌        |
|          | 122      | _            | -        | <u> </u>     |                  | -        | ├           | ٠,               | <i>:</i> . | -  | -         |
|          | 123      | _            |          | <u> </u>     | Ε.               | <u> </u> | <u>  -:</u> | <u>``</u>        | -          | ļ.   | -         |
|          | 124      | _            | ļ        | _            | -                | _        | ↓_          |                  | L          | <u> </u>   |           |
|          | 125      | -            | Ļ.,      | _            | L                | _        |             | _                | <u> </u>   | <u> </u>   | ļ_        |
|          | 126      | L            | <u> </u> |              |                  |          |             | <u>L</u> _       | _          | ┖  | L.        |
|          | 127      |              |          |              |                  | L        |             |                  | L          | L  | <u> </u>  |
|          | 128      |              |          |              |                  |          |             | <u> </u>         |            |  | i_        |
| Γ        | 129      |              |          | 1 -          |                  |          | Г           | Γ                |            |  |           |
| -        | 130      | $\Box$       | П        | T            | Т                |          | Г           | Г                | Г          | Π  | П         |
|          | 131      |              | Г        | 1            | Т                | Т        |             |                  |            |  |           |
| $\vdash$ | 132      |              | †        | $^{\dagger}$ | $\vdash$         | 1        | 1           |                  | $\vdash$   | 1  | Γ         |
| $\vdash$ | 133      | -            | +        | t            | T                | +        | $\top$      | $\vdash$         | $\vdash$   | <del>                                     </del> | Т         |
| $\vdash$ | 134      |              | +-       | +            | $\vdash$         | +-       | +           |                  | $\vdash$   | †  | t         |
| ⊢        | 135      | →            | +-       | ╁            | t                | ╁╌       | +           | ╁╌               | $\vdash$   | +-   | $\vdash$  |
| -        | 136      | _            | ╁        | +            | ╁╴               | ╁╌       | ╁           | 1-               | +-         | +  | t         |
| ⊢        | 13       |              | -        | +            | +-               | ╁        | +           | ╁                | 1-         | +  | ╁         |
| ⊢        | _        | -            | ╁┈       | +            | ╁                | +        | +-          | ╁                | ╁╌         | +  | ╁         |
| H        | 138      |              | ╀        | +            | +-               | +        | ╁           | +                | ╁          | +  | ╁         |
| <u> </u> | 139      | +-           | 1        | -            | +-               | ╁        | +           | ╁┈               | ╄          | +-   | ╁         |
| L        | 140      | _            | <u> </u> | 1            | ↓_               | _        | 1_          | _                | ╄          | 1  | Ļ         |
|          | 14       |              | _        |              |                  |          | L           | ┖                |            |  |           |
|          | 14       | _            |          |              | $\mathbf{I}^{-}$ |          | $\perp$     | $\perp$          | $\perp$    | L  | L         |
| Г        | 14       | 3            | Г        |              |                  | T        |             | $\mathbf{I}^{-}$ |            |  |           |
|          | 14       |              | $\top$   | T            | Τ                | 1        | T           | Τ                | T          | Τ  | Τ         |
| $\vdash$ | 14       |              | $\top$   | +            | $\top$           | T        | ╁╌          | 1                | ✝          | T  | T         |
| $\vdash$ | 14       | _            | +-       | +            | +                | +        | 十           | +                | +-         | 十  | $\dagger$ |
| $\vdash$ | 14       |              | +        | +            | +                | +        | +           | +                | +-         | +  | +         |
| $\vdash$ |          |              | +        | +            | +-               | +        | +-          | +                | +          | ╁  | +         |
| $\vdash$ | 14       |              | ╫        | +-           | +                | +        | +           | ╁                | +-         | ╁  | ╁         |
| $\vdash$ | 14       | <del>-</del> | +-       | +            | +-               | +-       | ╁           | +                | +-         | +  | +         |
| 1        | 15       | ч_           |          | Щ.           | 丄                |          |             |                  |            | 丄  |           |

If more than 150 claims or 10 actions staple additional sheet here